# P⊘RTAL

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**1** Memory forwarding: enabling aggressive layout optimizations by guaranteeing the safety of data relocation
Chi-Keung Luk, Todd C. Mowry
May 1999  **ACM SIGARCH Computer Architecture News , Proceedings of the 26th annual international symposium on Computer architecture**, Volume 27 Issue 2

Full text available: 📄 pdf(196.77 KB)   Additional Information: full citation, abstract, references, citings, index terms
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By optimizing data layout at run-time, we can potentially enhance the performance of caches by actively creating spatial locality, facilitating prefetching, and avoiding cache conflicts and false sharing. Unfortunately, it is extremely difficult to guarantee that such optimizations are *safe* in practice on today's machines, since accurately updating *all* pointers to an object requires perfect alias information, which is well beyond the scope of the compiler for languages such as C. T ...

**2** A real-time garbage collector based on the lifetimes of objects
Henry Lieberman, Carl Hewitt
June 1983 **Communications of the ACM**, Volume 26 Issue 6

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In previous heap storage systems, the cost of creating objects and garbage collection is independent of the lifetime of the object. Since objects with short lifetimes account for a large portion of storage use, it is worth optimizing a garbage collector to reclaim storage for these objects more quickly. The garbage collector should spend proportionately less effort reclaiming objects with longer lifetimes. We present a garbage collection algorithm that (1) makes storage for short-li ...

**Keywords**: LISP, algorithms, languages, lisp, object-oriented programming, parallel processing, performance, real-time garbage collection, reference counting, virtual memory

**3** Atomic incremental garbage collection and recovery for a large stable heap
Elliot K. Kolodner, William E. Weihl
June 1993 **ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data**, Volume 22 Issue 2

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